Title: PASSTHROUGH SWITCHING CONTROL MECHANISM
BASED UPON THE LOGICAL PARTITIONING OF A SWITCH
ELEMENT
Inventor(s): Jeff Gullicksen
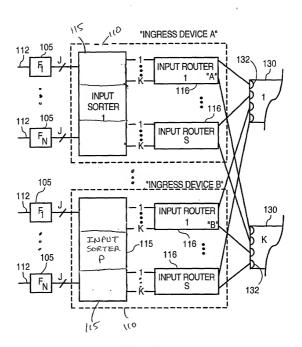Serial No.: NYA
Docket No. 60030-0023

FIG. 1A

Title: PASSTHROUGH SWITCHING CONTROL MECHANISM
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ELEMENT
Inventor(s): Jeff Gullicksen
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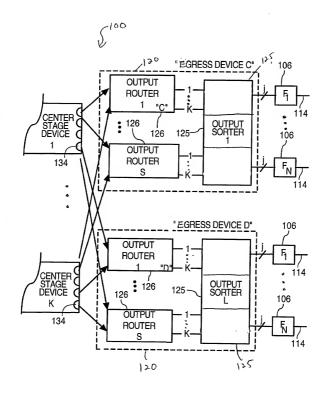Docket No. 60030-0023

FIG. 1B

SELECT ONE DATA LINE FOR EACH ROUTER OF AN INGRESS DEVICE — 210

SELECT ONE DATA LINE FOR EACH ROUTER OF AN EGRESS DEVICE — 220

CONNECT ROUTER OF EACH INGRESS DEVICE TO EVERY ONE OF THE CENTER STAGE DEVICES — 230

CONNECT ROUTER OF EACH EGRESS DEVICE TO EVERY ONE OF THE CENTER STAGE DEVICES — 240

FIG. 2

```
EXECUTE CONTROL ALGORITHM TO          ⌐ 310
ESTABLISH CONFIGURATION FOR SWITCH
            ELEMENT
```

```
DETECT FAILURE IN ONE OF THE          ⌐ 320
   CONNECTIONS IN THE SWITCH
         CONFIGURATION
```

```
REARRANGE ONLY SOME OF THE CONNECTIONS   330
BETWEEN SELECT CENTER STAGE DEVICES AND
        INGRESS/EGRESS DEVICES
```

FIG. 3

EXECUTE CONTROL ALGORITHM TO
ESTABLISH SWITCH CONFIGURATION
410

DETECT FAILURE IN ONE OF THE
WORKING LINES
420

IDENTIFY INGRESS AND EGRESS DEVICE
FOR PROTECT LINE ASSIGNED TO FAILED
WORKING LINE
430

PERFORM BRIDGE FROM CENTER STAGE
DEVICE TO EGRESS DEVICE OF PROTECT
LINE
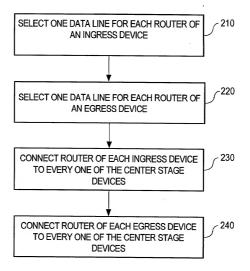440

PERFORM SELECT FROM CENTER STAGE
DEVICE TO INGRESS DEVICE OF PROTECT
LINE
450

FIG. 4

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BASED UPON THE LOGICAL PARTITIONING OF A SWITCH
ELEMENT
Inventor(s): Jeff Gullicksen
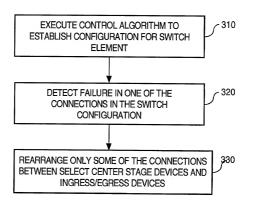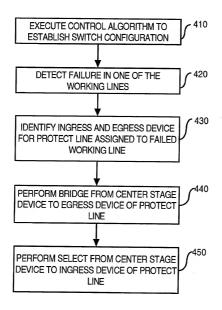Serial No.: NYA
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510

530

I_1 512

ACTIVE 540

STANDBY 545

E_1 512

ACTIVE 540

STANDBY 545

LINE MODULE

C_1 532

ACTIVE

STANDBY

SWITCH MODULE

I_N 512

ACTIVE 540

STANDBY 545

E_N 512

ACTIVE 540

STANDBY 545

LINE MODULE

C_N 532

ACTIVE
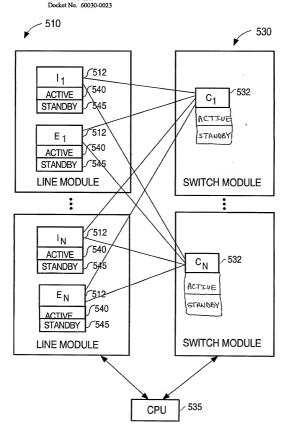
STANDBY

SWITCH MODULE

CPU 535

FIG. 5

Title: PASSTHROUGH SWITCHING CONTROL MECHANISM
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ELEMENT
Inventor(s): Jeff Gullicksen
Serial No.: NYA
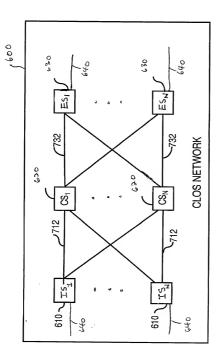Docket No. 60030-0023

FIG. 6

Title: PASSTHROUGH SWITCHING CONTROL MECHANISM
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FIG. 7A

Title: PASSTHROUGH SWITCHING CONTROL MECHANISM
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FIG. 7B